

Appendix A

Forms

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This Appendix contains example forms and instructions for completing the forms you may need when conducting or monitoring a fumigation.

APHIS Form 2061 (Residue Sample for Food or Feed Product)

Example NO CARBONS REQUIRED - PRESS HARD - YOU ARE MAKING 3 COPIES INSTRUCTIONS: Use a separate form for each sample. Take one sample before treatment and one after. Submit original under separate cover and yellow copy with sample. Retain pink copy. RESIDUE SAMPLE FOR FOOD OR FEED PRODUCT PPO STATION DATE OF FUNIGATION Name (first 6 lefters) 11 12 13 14 DATE OF SAMPLE PESTICIDE PESTICIDE USE 35 13. SAMPLE COLLECTOR'S NAME FOR LABORATORY USE ONLY PRE-TREATMENT SAMPLE POST-TREATMENT SAMPLE PESTICIDE 78 79 80 81 CONFIRMATION 21. METHOD *U.S. GPO: 1992-319-827/85079 Replaces APHIS FORM 8006 (1/91) which may be used

FIGURE A-1-1: Example of APHIS Form 2061 (Residue Sample for Food or Feed Product)

Purpose

This form is used to provide information on samples of food and feed products sent to the National Monitoring Residue and Analysis Laboratory (NMRAL) for residue analysis (see the following distribution for address). This form provides information on the commodity and the fumigation performed under a FIFRA Section 18 quarantine exemption.

Instructions

Block Number	Instruction
1 Code	Fill in the first six letters of your location. Enter one of the following: 551 for Funded Program Support (regular time) 552 for Reimbursable Program Support (overtime)
2 Code	Fill in the first six letters of the commodity. See the list of codes beginning on page-A-1-3. If there is no code, describe commodity in Remarks.
3	Fill in number of kilograms of shipment.
4	Fill in "0" for pre-treatment and "1" for post-treatment sample.
5	Fill in numbers for day, month, and year.
6	Fill in date sample was taken.
7	Fill in sample number (you assign a number).
8 Code	For methyl bromide, enter MEBR.
9	Fill in dosage rate in grams/cubic meter. Fill in dosage (total amount of fumigant) in grams.
10	Fill in number of hours of exposure.
11	Fill in number of hours for aeration.
12	Fill any remarks.
13	Print your name.
14	Fill in your office telephone number. Use the commercial number.

Distribution

TABLE A-1-1: Distribution of APHIS Form 2061

If:	Then:
Original	Send under separate cover to NMRAL
Yellow copy	Mail to NMRAL with sample
Pink copy	Keep for your files

NMRAL Address:

National Monitoring Residue and Analysis Laboratory

P.O. Box 3209 Gulfport, MS 39505 Phone: (601) 863-8124

Fax: (601) 867-6130

TABLE A-1-2: Root and Tuber Vegetables

Codes	
001	Beet
002	Carrot
003	Dasheen (taro)
004	Horseradish
005	Jerusalem artichoke
006	Parsnip
007	Potato
800	Radish
009	Rutabaga
010	Sugar beet
011	Sweet potato
012	Turnip
013	Yams
019	Other roots and tubers

TABLE A-1-3: Leaves of Root and Tuber Vegetables

Codes	
020	Beet
021	Carrot
022	Turnip
023	Dasheen (taro)
024	Parsnip
025	Rutabaga
026	Sugar beet
039	Leaves of other roots and tubers

TABLE A-1-4: Bulb Vegetables

Codes	
040	Garlic
041	Leek
042	Onion
043	Shallot
049	Other bulb vegetables

TABLE A-1-5: Leafy Vegetables (Other Than Brassica)

Codes	
050	Celery
051	Corn salad
052	Dandelion
053	Endive
054	Garden cress
055	Lettuce
056	Spinach
057	Rhubarb
058	Parsley
059	Swiss chard
069	Other leafy vegetables

TABLE A-1-6: Brassica (Cole) Leafy Vegetables

Codes	
070	Broccoli
071	Brussels sprout
072	Cabbage
073	Chinese cabbage
074	Cauliflower
075	Collard
076	Kale
077	Kohlrabi
078	Mustard greens
079	Rape greens
089	Other <i>Brassica</i> leafy vegetables

TABLE A-1-7: Legume Vegetables

Codes	
090	Beans
091	Peas
092	Lentils
093	Soybeans
094	Fava beans
099	Other legume vegetables

TABLE A-1-8: Foliage of Legume Vegetables

Codes	
100	Beans
101	Peas
102	Soybeans
109	Foliage of other legume vegetables

TABLE A-1-9: Fruiting Vegetables Except Cucurbits

Codes	
110	Eggplant
111	Pepinos
112	Pepper
113	Pimentos
114	Tomatoes
119	Other fruiting vegetables except cucurbits

TABLE A-1-10: Fruiting Vegetables (Cucurbits)

Codes	
120	Citron melon
121	Cucumber
122	Gherkins
123	Melons (includes cantaloupe and muskmelon)
124	Pumpkin
125	Squash
126	Watermelon
139	Other fruiting vegetables (cucurbits)

TABLE A-1-11: Citrus Fruits

Codes	
140	Calamondin
141	Citrus citron
142	Grapefruit
143	Lemon
144	Lime
145	Mandarin
146	Orange
159	Other citrus fruits

TABLE A-1-12: Pome Fruits

Codes	
160	Apple
161	Crab apple
162	Loquat
163	Pear
164	Quince
179	Other pome fruits

TABLE A-1-13: Stone Fruits

Codes	
180	Apricot
181	Cherry
182	Nectarine
183	Peach
184	Plum
185	Prune
199	Other stone fruits

TABLE A-1-14: Small Fruits and Berries

Codes	
200	Blackberry
201	Blueberry
202	Boysenberry
203	Cranberry
204	Currant
205	Dewberry
206	Elderberry
219	Other small fruits and berries

TABLE A-1-15: Cereal Grains

Codes	
220	Barley
221	Buckwheat
222	Millet
223	Oats
224	Popcorn
225	Rice
226	Rye
227	Sorghum
228	Teosinte
229	Triticale
230	Wheat
231	Wild rice
232	Corn
239	Other cereal grains

TABLE A-1-16: Forage, Fodder, and Straw of Cereal Grains

Codes	
240	Barley
241	Corn
242	Sorghum
243	Wheat
259	Other forage, fodder, and straw

TABLE A-1-17: Grass Forage, Fodder, and Hay

Codes	
260	Bermuda grass
261	Bluegrass
262	Fescue
279	Other grass forage

TABLE A-1-18: Nongrass Animal Feeds

Codes	
280	Alfalfa
281	Clover
282	Sainfoin
283	Trefoil
284	Vetch
299	Other nongrass animal feed

TABLE A-1-19: Tree Nuts

Codes	
300	Almond
301	Beechnut
302	Brazil nut
303	Butternut
304	Cashew
305	Chestnut
306	Filbert
307	Hickory
308	Macadamia nut
309	Pecan
410	Walnut
419	Other nuts

TABLE A-1-20: Herbs and Spices

Codes	
420	Anise
421	Borage
422	Basil
423	Camomile
425	Catnip
426	Chives
427	Curry
428	Dill
429	Fennel
430	Horehound
431	Lavender
432	Marigold
433	Marjoram
434	Pennyroyal
435	Rosemary
436	Sage
437	Savory
438	Sweet bay
439	Tansy
440	Tarragon
441	Thyme
442	Woodruff
443	Wormwood
449	Other herbs and spices

TABLE A-1-21: Miscellaneous Fruits

Codes	
500	Kiwi
503	Avocado

PPQ Form 429 (Fumigation Record)

Example

		USDA	A-APHIS 1.	. STATION REP	ORTING				2	PEST AND IP	ITERCEPTION NUMBER	
FUMIGATION RECORD												
				4. DATE OF ARRIVAL			5. DATE INTERCEPTED			6. 0	RIGIN	
7. PLACE OF ARRIVAL							8. DATE CONFIRMED			9. P	ORT OF LADING	
10. FUMIGATION CONTE	RACTOR			· · · · ·			11. DATE	FUMIGATION	ORDERED	12. C	OMMODITY	
13. FUMIGATION SITE							14. DATE	FUMIGATED		15. Q	UANTITY	
16. MARKS		17. B/L I	ND.	18. EN7	RY NO.	1-	19	SHIPPER		+-	20. CONSIGNE	
											20. CONSIGNE	
		 	_			+				_		
		-				+						
<u>-</u>												
7) FUMIGAN1 AND TRE	ATMENT SCH	EDULE			22. TEMPER	TURE	ь	Commodity	•	23. G	AS ANALYZER (Type and Se	er. No.)
24. ENCLOSURE			25. WEAT	HER CONDITIO		26 C	JBIC CAPACIT			27. YF	REATMENT UNDER SECTION	18 EXEMPTION
NO DITANS			29. TOTAL	L CFM'S FANS		30. TI	Mt FANS OPE	RATED		31. FG	OOD OR FEED COMMODITY	
32. GAS INTRODUCTION			33 AMT	GAS INTRODU	ren -	1	AS ADDED				Yes No	
a Start	b Finish		33. AWII.	GAS MINODO		34. 0	AS ADDED	_			Yes No	Sample No.
	(To	be prepare	ed for fum	GAS CON	CENTRATION OF GREEK	ONS (gru	n per cubic me readings a	eter (oz./1000 ire require	cu.ft.j) d while tre	atment is i	n progress.}	
16					LACEMENT O						38.	T
(ATE-TIME	FRONT	SPACE CENTER	REAR	COMM	IODITY						TIME INTERVAL (FROM 32. B)	INSPECTOR'S INITIALS
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15 DETECTORY TOBE REA	winius (rPM	<u> </u>			·					T]	Γ
				 						-		
40. REMARKS				<u></u>		<u> </u>	1. CALCULATI	inns		<u> </u>	1	
- · · · · · ·							. CALCULATI					
42 SIGNATURE OF INSPECTOR DATE						- 4	43. SIGNATURE OF REVIEWER DATE					
				1		- 1	Which may be used					

FIGURE A-1-2: Example of PPQ Form 429 (Fumigation Record) (Front)

Example (Reverse) TARPAULIN FUMIGATION In preparation for the fumigation and prior to site selection the officer should have determined (1) the immediate pest risk associated with the infested commodity, (2) the temperature requirements for the fumigation, and (3) the permeability of the CHECKLIST OF MATERIALS AND PROCEDURES (Consider each of the listed items when performing a fumigation.) MATERIALS FUMIGATOR Tarpaulin Tarpaulin Supports Volatilzer Sand Snakes Heat Supply Drierite Water Snakes Extension Cords Exhaust Fans Loose Sand 2-3 Prong Plug Adapters Sampling Tubes Self Contained (SCBA) Breathing Apparaius Burlap / Padding Furnigant Halide Detector Furnigation Placards Tape Measure SCBA - Self Contained Breathing Apparalus Pesticide & Spray Equipment T/C Gas Analyzer Gas Detector Kit and PROCEDURES (SECTION III TREATMENT MANUAL) PREPARATION FUMIGATION TREATMENT SCHEDULE SITE SELECTION TARPAULIN ENCLOSURE Introduction Rate DETERMINATION Ventilated Area Plant Pest COVER Check for Leaks Sheltered Area Condition Commodity Temperature Impervious Surface Air Space, Above Load Space Temperature Gas Detection Tosts Floor Area 30 cm (12") Space Around Load Non-work Area Volume Determination CONCENTRATION READINGS T/C Gas Analyzer Proximity to Electrical Source Overlap 45 cm (18") Border Sorptive Commodity Proximity to Commodity SNAKES Amount of Furnigant Time Intervals Contact Along Sides COMMODITY & EQUIPMENT Gas Distribution Area Clear of Unauthroized Stack Size Limitation Contact Around Corners Personnel Maximum / Minimum Air Space, Below and Between Overlap 15 cm (6") Minimum AERATION (MULTIPLE STACKS) Fan Operation Exhaust Fan(s) Placement of Tarp. Supports Ptacement of Padding Perimeter Contaminant Gases Exhaust Tube(s) Exhausted in a Non-Placement of Fans Fumigant Cylinder Weight fumigation Area Negligible Gas Readings Before Tarpaulin Remov Placement of Gas Introdution Gas Line Connections Perimeter

FIGURE A-1-3: Example of PPQ Form 429 (Fumigation Record) (Back)

Placement of Sampling Lines
PPQ FORM 429 (Reverse)

Volatilizer Heated

Halide or Other Detector Tests

★ U.S. GOVERNMENT PRINTING OFFICE: 1997 417-294/60024

Purpose

This form is to be used as a station record for all treatments conducted in approved chambers or in temporary enclosures (tarpaulin, in containers, truck vans, railroad cars, ships, warehouses, or other enclosures). Treatments conducted under temporary enclosures require minimum gas concentration readings be reported.



Aircraft fumigation is not authorized.

Block	Instruction
	Fill in.
1	
2	Fill in scientific name(s) of pest or simply "precautionary" when fumigation is mandatory as a condition of entry or movement. Include station interception number(s) if fumigation is based on pest findings.
3-20	Fill in. In completing Block 12, if the commodity is a fruit or vegetable, enter the common name. The common name is more descriptive. If available, include the variety. By using common names and names of varieties, tolerances to the fumigant can be better predicted.
21	Fill in fumigant (for example, MB, CB, PH, EO, or SF), schedule number, dosage rate, and exposure period (4 lbs/1,000 ft ³ for 12 hours).
22	Fill in beginning temperatures in space under enclosure (a) and commodity temperature (b). Specify Centigrade or Fahrenheit.
23	Fill in type of thermal conductivity unit used (Fumiscope® or Gow-Mac®) and the serial number of the conductivity unit.
24	Fill in chamber, tarpaulin, structure, or type of carrier such as truck van, railroad car, or ship. If a container was used, indicate if covered by tarpaulin. Fill in type of tarpaulin used—single or multiple-use and the thickness (4 mil or 6 mil).
25	If treatment is conducted outside, fill in the weather conditions.
26	Fill in.
27	If commodity is treated under APHIS Section 18 Exemption, check "yes." If commodity is treated at label dosage or less, check "no."
28-30	Fill in.
31	If food or feed, check "yes." If nonfood/nonfeed, check "no."
32	Record time gas introduction started (a) and finished (b). Treatment does not start until gas is completely introduced in the chamber or enclosure.
33	When the fumigant dosage is calculated by weight, fill in the dosage to the nearest quarter pound. If liquid measures are needed, convert from weight to volume by using the conversion table in Appendix D.
34	If additional gas is required, note under Remarks (Block 40) and show calculations (Block 41).
35	Check appropriate box. Sample number refers to Block 7 on APHIS Form 2061 (Residue Sample for Food or Feed Product).
36	Record the date and time you take concentration readings. Treatment schedules specify when to take concentration readings.
37	Fumigants such as methyl bromide may be read and recorded directly from the T/C unit scale. However, readings for fumigants such as sulfuryl fluoride and ethylene oxide must be corrected to get the true concentration reading. Each T/C unit used for fumigants other than methyl bromide is calibrated with a correction factor. The factor is multiplied times the dial reading, to give the actual concentration. Record phosphine gas concentrations as ppm as determined by detector tubes. Specify where the gas sampling line was placed: space or commodity. Use at least three lines. Use additional lines as needed.
38	Fill in.
39	Fill in time as well as the reading. Refer to the section in the manual that is tabbed "Aeration" for guidelines.
40	Note any unusual events that occurred during the treatment. When it is necessary to abort a fumigation, details concerning the termination of the treatment should be reported in this block.

Block	Instruction
41	Show all calculations used in determining the volume of temporary enclosures. Also show calculations when additional gas is added.
42-43	Sign and date.
Reverse Side	Use as a check list.

Distribution

Give the original and one copy to your supervisor for review. The supervisor should keep the original for port files and send one copy to:

USDA, APHIS, PPQ Oxford Plant Protection Laboratory 901 Hillsboro Street Oxford, NC 27565

PPQ Form 519 (Compliance Agreement)

Example

		DEPARTMENT OF AGRICULTURE ANT HEALTH INSPECTION SERVICE ION AND QUARANTINE PROGRAMS	
	COMPL	IANCE AGREEMENT	
. NAME AND MAILING ADDRES	SS OF PERSON OR FIRM	2. LOCATION	
ir. Tom Jones		All piers/warehous	ses in the Philadelphia
Beat-A-Bug 3458 West 7th Street		area involved with	n fresh fruit and
Philadelphia, PA 190	200	vegetable importat	ions
3. REGULATED ARTICLES	J00		
Fresh produce enterin			
4 APPLICABLE FEDERAL QUAR Plant Quarantine Act		TIONS	
Federal Plant Pest Ac	of 1912 t of 1957		
reactor franciest Ac	.01 1937		
6. I/We agree to the following:			
	current pestici	ide applicators certificat	dan unan danaad
		it the fumigation site at	
To provide all nece equipment are both	ssary equipment subject to the a	(including safety equipme approval of the PPQ certif	nt) and labor. Labor and ied applicator.
nealth Act, Environ	mental Protectic	or procedures of the Occup on Agency, State, local, o icator including verifica	r additional requirement.
or my employees act	ually working at	the fumigation site.	
To follow all instr and conduct of the	uctions and proc fumigation.	edures required by PPQ in	the planning, set up,
That the PPQ certif	ied applicator w	ill monitor/supervise the	fumigation.
That the PPQ certif fumigation at any p any of the terms of	oint if the trea	as the authority to appro tment is or will not be s are not met.	ve or disapprove a afe or effective or if
I7. SIGNATURE	S. TITL	E	9. DATE SIGNED
I7. SIGNATURE	QQ_ I. TITL	E Fumigator	
17. SIGNATURE	20re		September 1, 1992
Dani Do	-80re	Fumigator	September 1, 1992
The affixing of the signatures	below will validate th	Fumigator is agreement which shall remain in	September 1, 1992
The affixing of the signatures effect until cancelled, but ma	s below will validate the	Fumigator	September 1, 1992 10. AGREEMENT NO. PENN-3-28
The affixing of the signatures effect until cancelled, but ma	s below will validate the	Fumigator is agreement which shall remain in	September 1, 1992 10. AGREEMENT NO. PENN-3-28 11. DATE OF AGREEMENT
The affixing of the signatures effect until cancelled, but ma	s below will validate the	Fumigator is agreement which shall remain in any or revoked for noncompliance. 13. ADDRESS USDA-APHIS-PPQ	September 1, 1992 10. AGREEMENT NO. PENN-3-28 11. DATE OF AGREEMENT September 2, 1992
The affixing of the signaturer effect until cancelled, but may 11. FFG OFFICIAL (Nome and Pitt Victor S. Smith Officer in Charge	s below will validate the	Fumigator is agreement which shall remain in the processor or revoked for noncompliance. 13. AGONESS USDA-APHIS-PPQ 2432 Lakeview D	September 1, 1992 10. AGREGMENT NO. PENN-3-28 11. DATE OF AGREEMENT September 2, 1992 Prive, Room 10
The affixing of the signatures effect until cancelled, but ma	s below will validate the vote revised as necession	Fumigator is agreement which shall remain in try or revoked for noncompliance. 13. ADDRESS USDA—APHIS—PPQ 2432 Lakeview D Philadelphia, P	September 1, 1992 10. AGREGMENT NO. PENN-3-28 11. DATE OF AGREEMENT September 2, 1992 Prive, Room 10
The affixing of the signatures effect until cancelled, but ma	s below will validate the be revised as necessaries	Fumigator is agreement which shall remain in the processor or revoked for noncompliance. 13. AGONESS USDA-APHIS-PPQ 2432 Lakeview D	September 1, 1992 10. AGREGMENT NO. PENN-3-28 11. DATE OF AGREEMENT September 2, 1992 Prive, Room 10
11. PPO OFFICIAL Name and Fitt Victor S. Smith Officer in Charge	s below will validate the be revised as necessaries	Fumigator is agreement which shall remain in any or revoked for noncompliance. 13. AGONESS USDA—APHIS—PPQ 2432 Lakeview D Philadelphia, P (215) 555-4980	September 1, 1992 10. AGREGMENT NO. PENN-3-28 11. DATE OF AGREEMENT September 2, 1992 Prive, Room 10

FIGURE A-1-4: Example of PPQ Form 519 (Compliance Agreement)

Purpose

The PPQ Form 519 is a form that provides a signed, written agreement with fumigators to indicate their understanding of methods, conditions, and procedures necessary for compliance with regulations.

Instructions

Many PPQ ports maintain Compliance Agreements with commercial pesticide applicators. PPQ may maintain compliance agreements, however if they cancel an agreement, PPQ should not ban an exterminator from doing business, or applying regulatory treatments. PPQ may however, discontinue certification of a particular treatment that did not meet the required time, temperature, and concentration levels indicated in the treatment schedule. Similarly, PPQ may not want to begin monitoring a fumigation if the tarp appears inadequate and excessive leakage may lead to a safety problem.

Review compliance agreements at least annually, but preferably twice a year. Amend compliance agreements as appropriate.

If the establishment fails to abide by the conditions of the agreement, then the Port Director may cancel that agreement orally or in writing.

If you make an oral cancellation, confirm it in writing as soon as possible. The establishment has 10 days to appeal the cancellation. Appeals must be made to the Deputy Administrator.

Block	Instructions
1,8,9, 11-13	Fill in.
2	Fill in the location of the specific property(s) for which the agreement is signed.
3	Fill in the specific regulated articles to which the agreement applies.
4	Fill in the titles, parts, and subparts.
5	Check as appropriate.
6	Outline stipulations which apply to the fumigator for each quarantine or regulation affecting the fumigator. Make clear to the fumigator that stipulations in the compliance agreement do not preclude compliance with other sections of the quarantine or regulations. If space in Block 6 is inadequate for listing the stipulations, then write "See Attached Sheets."
7	Have a responsible official of the fumigator's sign.
10	Assign a compliance agreement number.
14	Have the PPQ Port Director sign.
15-17	Complete only when State is involved in cooperating with enforcing Federal quarantines.

Distribution

If:	Then:
Compliance agreement affects one work unit	GIVE original to the fumigator, and KEEP a copy for port files in the area where the fumigator is located
Compliance agreement affects more than one work unit	GIVE original to the fumigator, and GIVE copies to all work units affected by the compliance agreement, and
	KEEP a copy for port files in the area where the fumigator is located

PPQ Form 523 (Emergency Action Notification)

Example

U.S. DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE	1. PPG STATION		2. DATE ISSUED
EMERGENCY ACTION NOTIFICATION	3. NAME OF AGRIC	CULTURAL PEST	4. DATE INTERCEPTE
SHIPPER	6 NAME AND QUA	NTITY OF ARTICLE	
	7. IDENTIFYING M	ARKS OR NUMBERS (con	tainer no., B/L no., etc.)
TO: (Consignee or Owner)	1	9. LOCATION OF A	RTICLES
Г	٦	10. ORIGIN OF AR	TICLES
		ļ	CARRIER DATA
		Name or ID	CARRIER DATA
L,	\bot		
		Point of Lading	Date of Arrival
AFTER RECEIPT OF THIS NOTIFICATION, ARTICLES AND/OR AS DIRECTED BY AN OFFICER. CAUTION: Apply chemicals in accordance with all label inst			DE MOYEU EXCEPT
CAUTION: Apply chemicals in accordance with all label inst	ructions and applicab	ie regulations.	
5. AFTER RECEIPT OF THIS NOTIFICATION BEGIN SPECIFIED	14. SIGNATURE O	FOFFICER	
S. AFTER RECEIPT OF THIS NOTIFICATION BEGIN SPECIFIED ACTION WITHIN (Specify No. hours or No. days)			
I, AFTER RECEIPT OF THIS NOTIFICATION BEGIN SPECIFIED ACTION WITHIN (Specify No. hours or No. days) 15. ACKNOWLEDGEMENT OF R.	ECEIPT OF EMERGENC	CY ACTION NOTIFICATION	·N
I, AFTER RECEIPT OF THIS NOTIFICATION BEGIN SPECIFIED ACTION WITHIN (Specify No. hours or No. days) 15. ACKNOWLEDGEMENT OF R.	ECEIPT OF EMERGENC	CY ACTION NOTIFICATIOns of the state of the	IN
S. AFTER RECEIPT OF THIS NOTIFICATION BEGIN SPECIFIED ACTION WITHIN (Specify No. hours or No. days) 15. ACKNOWLEDGEMENT OF RI I hereby acknowled	ECEIPT OF EMERGENC	CY ACTION NOTIFICATIOns of the state of the	
S. AFTER RECEIPT OF THIS NOTIFICATION BEGIN SPECIFIED ACTION WITHIN (Specify No. hours or No. days) 15. ACKNOWLEDGEMENT OF R. I hereby schnowled	ECEIPT OF EMERGENC	CY ACTION NOTIFICATION S notification. DATE & TIME	
S. AFTER RECEIPT OF THIS NOTIFICATION BEGIN SPECIFIED ACTION WITHIN (Specify No. hours or No. days) 15. ACKNOWLEDGEMENT OF RI I hereby acknowled; GNATURE	ECEIPT OF EMERGENC ge receipt of the foregoin	CY ACTION NOTIFICATION S notification. DATE & TIME	
S. AFTER RECEIPT OF THIS NOTIFICATION BEGIN SPECIFIED ACTION WITHIN (Specify No. hours or No. days) 15. ACKNOWLEDGEMENT OF R. I hereby schnowled	ECEIPT OF EMERGENC ge receipt of the foregoin	CY ACTION NOTIFICATION S notification. DATE & TIME	
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S. AFTER RECEIPT OF THIS NOTIFICATION BEGIN SPECIFIED ACTION WITHIN (Specify No. hours or No. days) 15. ACKNOWLEDGEMENT OF R. I hereby schnowled	ECEIPT OF EMERGENC ge receipt of the foregoin	CY ACTION NOTIFICATION S notification. DATE & TIME	
S. AFTER RECEIPT OF THIS NOTIFICATION BEGIN SPECIFIED ACTION WITHIN (Specify No. hours or No. days) 15. ACKNOWLEDGEMENT OF R. I hereby schnowled	ECEIPT OF EMERGENC ge receipt of the foregoin	CY ACTION NOTIFICATION S notification. DATE & TIME	
S, AFTER RECEIPT OF THIS NOTIFICATION BEGIN SPECIFIED ACTION WITHIN (Specify No. hours or No. days) 15. ACKNOWLEDGEMENT OF R. I hereby schnowleds GNATURE 16. REVO.	ECEIPT OF EMERGENC ge receipt of the foregoin	CY ACTION NOTIFICATION S notification. DATE & TIME	CITY & STATE

FIGURE A-1-5: Example of PPQ Form 523 (Emergency Action Notification)

Purpose

PPQ Form 523 is issued for treatments and other remedial measures ordered for carriers, cargoes, or articles arriving in the United States or moving interstate. The PPQ Form 523 also serves as a means to communicate plant pest and animal disease risk situations between ports, Program Support, and International Services personnel in foreign countries.

Instructions

When a suspected pest is found, advise the owner, agent, or ship's captain that a suspected pest has been found. If identification is confirmed, quarantine action will be required. For ships, note the information on the PPQ Form 288 (Ship Inspection Report). Hold all cargo from infested holds pending determination. Take appropriate

safeguards to prevent pest dissemination for infestations of cargo or stores. If it is necessary to discontinue discharge of cargo from the vessel, promptly inform Customs.

Block	Instructions					
1,2,4	Fill in.					
3	Fill in the scientific and common name of the pest. Indicate if identification is tentative; however, final identification is required on copies sent to Program Support. List the interception number.					
5	Fill in the name and address of the firm sending shipment. Avoid the use of intermediate parties such as freight forwarders, etc.					
6	Fill in the name and quantity of article (include description on accompanying documentation and additional terms if needed to clearly describe the article). If plant material is involved, fill in the genus of the plant.					
7	Enter bill of lading, container numbers, air waybill number, vessel hold number, vehicle license number, etc.					
8	Fill in the consignee or owner and address. Use intermediate parties such as the broker or carrier if owner's name is unavailable.					
9	Fill in where the article is located, e.g., location of premises, pier, dock, container yard, hold space, etc.					
10	Fill in the origin of the article.					
11	Name or ID— Fill in vessel name, airline and flight number, trucking firm and license number, railroad car number, container number, etc.					
	Point of Lading— Fill in foreign port, or place where loaded, e.g., Leghorn, Italy; Jeddah, Saudi Arabia; etc.					
	Date of Arrival— Fill in the date the article arrived at port or point where PPQ Form 523 is issued.					
12	List action required; e.g., treatment schedule, return to origin. Include safeguards pending final quarantine action (if any). If more than one action is required, then list actions as a, b, c, etc. If an article is prohibited, then fill in that the article is prohibited per regulation (list title, part, and subpart from the CFR's), and any other reasons in addition to action required.					
13	"Begin Specified Action Within" means the actual beginning of a treatment or emergency action or a good faith effort to begin contract proceedings or preparation for the action. Fill in the time (number of hours or days) action must begin after receipt of this notice. Specify a time for complying with each action listed in Block 12, e.g., a) 2 hours; b) 48 hours.					
14	Sign in this Block.					
15	Obtain the signature of the owner, agent, or person having immediate jurisdiction over the carrier or articles. If someone other than the owner signs, state the name of the company.					
16	Fill in action taken. Be specific that actions listed in Block 12 were carried out. Explain any acceptable deviations from the actions listed in Block 12. Sign and date the original and the copy in the hands of the owner/agent. If the owner/agent copy is not available, then make a copy and deliver it to the owner/agent.					

Use the following table to determine if any special instructions apply:

If issuing PPQ Form 523 for:	And:	Then:
An infested vessel	The vessel is sailing without treatment	SEE special instructions that follow
	The vessel is sailing to a subsequent port for treatment	AMEND Block 16 of the Form to read "Ship authorized movement to (port) for treatment."
		FORWARD copies of the Form to the next port
	The structural design prevents an adequate fumigation	CONSULT your Regional Director for an alternate treatment and/or cleaning, and
		NOTE conditions on the Form 523, then
		GO to "Distribution"
	Treatment will be conducted at the port	GO to "Distribution"
Infested cargo	It is covered by an invalid, inaccurate, or improperly issued phytosanitary certificate, treatment certificate, or military customs certificate	ATTACH a copy of the document to the copy of the Form that you send to Program Support after the treatment is completed, then GO to "Distribution"
	Not covered by any of the certificates described in the cell above	GO to "Distribution"
Other than above		GO to "Distribution"

Special Instructions for Infested Vessels Sailing Foreign Without Treatment

When an infested vessel is allowed to sail foreign without treatment, type the following statement on the reverse side of the PPQ Form 523 and reference it in Block 12 on the face of the form.

"The requirements of the Emergency Action Notification shown on the front of this form are suspended upon condition that this vessel shall leave the territorial limits of the United States within _____ hours after receipt of this notice. This vessel shall not reenter any port in the United States unless it has been treated in accordance with the notification and certified by the person who applied the treatment. If the certificate is not presented to the PPQ officer when arriving at a port in the United States, or if the PPQ officer for any other reason is not satisfied that the infestation has been eliminated, the notification shall immediately become effective and treatment required."

Distribution

TABLE A-1-22: Determine Distribution of PPQ Form 523 (Emergency Action Notification)

If:	Then:
Part 1	GIVE to the owner or agent having immediate jurisdiction over the carrier or articles. In the case of vessels, give to the captain.
Part 2	KEEP for your port files.
Part 3	GIVE to the broker or agent (if more than one copy is needed, then make photocopies).
Part 4	SEND to Program Support within 5 days after completion of action. Include the final pest identification and the original of any accompanying documents that attest to actions taken at the point of origin (e.g., phytosanitary certificates, treatment certificates, military customs certificates, certificates of origin, etc.).
Other copies	SEND to Area Director at proposed destination of material for possible follow-up action.
	SEND to Regional Office or originating office as required locally.
	SEND to subsequent PPQ office if action is to be completed there (mail one copy, and send one copy accompanying the article or carrier) or if khapra beetle or snails are found on cargo or carrier.

See the Airport and Maritime Operations Manual for instructions on completing a PPQ Form 518.

PPQ Form 449-R (Temperature Recording Installation Report)

			ERATURE (IN- (Refer to PF	TRANS	IT COLD	TREATMEN	NT)		US	DA-APHIS	1. NAME OF	VESSE		_	
POR	T REPORTE		7110,011		E OF INSPE				POINT OF INSPECTION 5. HULL I			UMBER AND SHIPYARD			
MAN	NUFACTURE	R'S REP		7. ELE	CTRICAL CO	NTRACTOR		s. SHIP'S OFFICER 9. SHIPPING LINE							
				<u>L</u> .											
MA	VKE	ſ	RECORDING	INSTRU	MENT			22. MAKE							
. SE	RIAL NO			12. Mi	DDEL NO			23. SER	IAL NO.			24. M	ODEL NO		
SC	ALE DEFLE			14 PF	INT INTERV	AL		25. SCA	LE DEFLECTI	ON		26. PRINT INTERVAL			
. TE	INCR F		mm/C°	16 01	IART SPEED			27 TEM	INCh/F°	ANGE	mm/C° 28. CHART SPEED				
to							27. 12.1		to		20. 01	5417 SF CEL	,		
			TEMPERATU							1	EMPERATU				
10	CATIONS	(If Uns	atisfactory,		e in item 3- BELING	1)		1	TIONS	(If Uns	atisfactory,			4)	
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[Satisfac	tory 🔲 Une				ory 🔲 Uns	atisfactory		Satisfactor	y 🗍 Unsat			Satistac	lory 🔲 Uns	atisfacto
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	FORM 449		ocal Reprodu								h is obsolet				

FIGURE A-1-6: PPQ Form 449-R (Temperature Recording Installation Report)

PPQ Form 203 (Foreign Site Certificate of Inspection and/or Treatment)

		10.
U.S. DEPARTMENT OF AGRICULTURE ANIMAL, AND PLANT HEALTH INSPECTION SERVICE PLANT PROTECTION AND QUARANTINE	1. CERTIFICATE NO.	2. COUNTRY OF ORIGIN
	3. DATE LOADED	4. FOREIGN PORT OF EXPORT
FOREIGN SITE CERTIFICATE OF INSPECTION AND/OR TREATMENT		
5. CARRIER IDENTIFICATION		6. U. S. PORT OF ENTRY
7. SHIPPER (Name & Address)	8. CONSIGNEE (Name &	Address - Include Zip Code)
	10. NO. CONTAINERS	
9. COMMODITY	(Identify as box, sack, % Bruce box, flat, card- board box,etc.)	11. CONTAINER IDENTIFICATION MARKS
<u> </u>		
		-
		59.1
12. LOCATION OF INSPECTION AND/OR TREATMENT	.	13. DATE
This certifies that the shipment described above has bee requirements for entry into the United States.	n inspected and/or treat	ted in accordance with agricultural
14. SIGNATURE OF PLANT PROTECTION AND QUARANTINE OF	FICER	15. DATE ISSUED
PQ FORM 203 (AUG 78)		

FIGURE A-1-7: PPQ Form 203 (Foreign Site Certificate of Inspection and/or Treatment)

PPQ Form 556 (In Transit Cold Treatment Clearance Report)

Anima	DEPARTMENT	ilth Inspe	ction Serv	ce	NAME O	F CARRIE	R		2. PC	RTOFL	OADING	3. ₽	of	
	RANSIT CO	LD TRE	EATMEN		. PORT RI	EPORTING	;		5. DA	TE	6	6. TIME		
INSTRUCT	CLEARANG IONS: Refer to			anual 7	. PORT RE	F PORTING		8. DATE				9. TIME		
	10 and CFR 3		acinemi wi	anuai					14.0		ļ			
			,		10. CONT									
OMMODITY	NO. CA	SES	СОММОІ		NO. CAS		MMODIT	Y NC	. CASES		MODITY	NO. C	ASES	
Apples			Nectarines				ears THER			Plum				
Cherries				,			pecify)			(Spe				
Grapes			Peache					<u></u>						
11. INSTRU			XAMINA		T LOCKE	D? 17	'. INSTRI	MENT NO			INATION		KED?	
		'	YES []	NO					YES		NO []	
13. PRINT	NG I NTERVA	L	14. CHA hour	RT SPEE s)	D (in, or cr	n/24 19), PRINTI	NG INTER	VAL	20. 9	HART SP	EED (in. o	r cm/24	
15. ACTUAL LENGTH OF RECORD 16. CALCULA' OF RECORD					LENGTH	21	. ACTUAL	LENGTH	OF RECO	RD 22. 0	ALCULATOF RECOF	TED LENG	этн	
	ATION RECOF	90	IF NOT	SATISFAC	TORY - W	нү			SIGN	ED BY				
SATISFAC	TORY [_]						MDED 4 =:		-			-		
24. IDENTIFY COMPARTMENTS						I E	MECKA FL	IRE RECO	KU.	Γ		Γ		
25. Inirial		MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	
26. Loadin comple	g .	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	
	2.2°C(36°F)												 	
27. E G G 27.	1.7°C(35°F)							 		-	 			
MEN WEN	1.1°C(34°F)				1									
THEATMENT COMMENCED	0.6°F(33°F)				·									
27.	0°C(32°F)					-	!	<u> </u>						
	0 0,02 17	TEMP.	DAYS	TEMP.	DAYS	TEMP.	DAYS	TEMP,	DAYS	TEMP.	DAYS	TEMP.	DAYS	
78. Total N treatment of clear	nt to time												-	
_	nperatures i check by	мах.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	
		BULB NO.	TEMP.	BULB NO.	TEMP.	BULB NO.	темр.	BUL B NO.	TEMP.	BULB NO.	TEMP.	BULB NO.	TEMP	
30. Recorde	d													
tempera	tures			ĺ					ĺ					
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31. CARGO	STOWAGE	1E NOT	SPECIFY	WH V			L	32. SIGN	ATURE	E OFFIC	FO	<u> </u>	ļ	
	TORY	IF NUT.	SPECIFY	пн ү				-2. 51GN	A LUNE C	FUFFIC	E.H			

FIGURE A-1-8: PPQ Form 556 (In Transit Cold Treatment Clearance Report)

APHIS Form 205-R (Instructions and Worksheet for Calibrating Portable Temperature Sensors)

BOARE OF FACILITY	1.6	SERVICES OF PERSON CALIBRA	THEO SENGORS	4. NAME OF PERSON CALIBRATING BRANC Citys or Paris		
		INSTRUCTO	See &			
These instructions are for or	ditration the cortain		Market Comments of the Comment	Company taken	that contact books	
(A) Assign each portable se end of each sensor.)	msor a number. (Mo	NE BRIDOY MATERIES CO.	pieces of duct tape o	r lag, and attach	them near the "dry"	
(B) Submerge the "wet" or 48.9°C), in close proxim same depth. The more standard against which the control of the control o	wy to the bulb of a s ury thermometer /w	iubmarsible cartifed gli (ib diamercutions /sada	REE STWOCKEY STREETS OF THE	War Bodh made t	tale standard measurement the like	
(C) Record the temperature difference in the two ten	is obtained from ea reportures, if any, an	ch portable sensor and d record this also.	the mercury thermo	meter, in succes	salon. Compute the	
(D) If the temperature show shown on the certified in performance test. Any used. Recommend that	tercury thermometer sensors reading out	. then this service is co-	unidered to be within t	he bringmen one	country buy connect for the	
		TEMPERATURE (Spec	Ny "G or "F)			
S. PORTUBLE BENSON HIS	A BENSOR	V mestines.	A DEPENDING PROTEINED	11-		
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		+				
	100000					

FIGURE A-1-9: APHIS Form 205-R (Instructions and Worksheet for Calibrating Portable Temperature Sensors)

APHIS Form 206-R (Test of the Accuracy of the Permanent RTD Sensors Installed in Hot Water Tanks)

W		NCCURACY O		MANENT RTD TER TANKS	SENSORS	STEA - APREL	L DATE
books OF PACILITY			MONTHS OF	NESSON TECTING SEN	1044	Con or Point	CA TRETING SPINISHS
			_	INSTRUCTIONS			
hese instructions a world to a recorder	describe the procest topated in the Cont	ture for testing the not Room.	e accuracy of	the portsonons RTC	Nemperature sensors in	dailed in the it	of water tanks, which ar
First, cellbrate performing th	at avalatie porati is procedure - Af	to sensore against HIS FORM (ES.)	the certified gi	us mercury therm	ometer standard. (See se	parate instru	otons and earlished fo
Select the port	atis sensor that she deach of the perm	ows the least deal arent HTD sensor	alice from the o installed on th	contried mercury sta to torse.	indand. This particular ser	nor will now b	o used as a tool for teach
careful not to	cover the metal se	mace op with later	(The use of	a metal rod shau	"wet" end of the portable of the system because rise, and to the apposite of	If it comes is	the relieu towards towards of
sides of the tal the portable is sensor into a f control room. pormarient cor) Decision: If I calibrated), th	nt to locate the out encor somes in cits and-held digital the (You may need a eor in the turis, the temperature of our the permanent of (+/- \$.3*C), their t	act passion of each se provincy to the emoments, and no an assistant for own on the deple sensor in the task	to permanent H tork's service of the display. The purpose.) of in the control of accomplishes.	TD series. Using to (WOTE: Each bill Compare the number Record the results to number to the terminal to the te	run the gump to ensure the portable sensor and to amount position about it is not sett the display on the its from the chart on this the temperature above or mee do not metch exactly, the teleparature. Any person	dissembly, of the its own so data togger or form. Rapes the hand-ne- but are within	pit into the hat water an miser; Plag the portable strip chart recorder in the in the procedure for each it digital thermometer (a final income of a decree of
AMERICA DIOPAL	THERMOMETER STA	O FOR THE STUNEAR		8. MAKE & MODE	OF THE RECORDER CHES IN	CONTROL BOOM	FOR TEMPERATURE DISPLA
TARRESO AND PERSONAL PROPERTY AND SERVICE PROPERTY	* PEADING OPPARED TO VO	Sportson Factor (Control of Control of Contr	M. THUS MEADING OF OF YOL	TT. READING ORTHORES (14" or 10) St. Control Room	10. SEPTEMBER SETTINGS SOLUMN 10. AND COLUMN 11. (*F or *C	u	******

FIGURE A-1-10: APHIS Form 206-R (Test of the Accuracy of the Permanent RTD Sensors Installed in Hot Water Tanks)

APHIS Form 207-R (Sensor Location Diagram Fruit Weights and Pulp Temperatures)

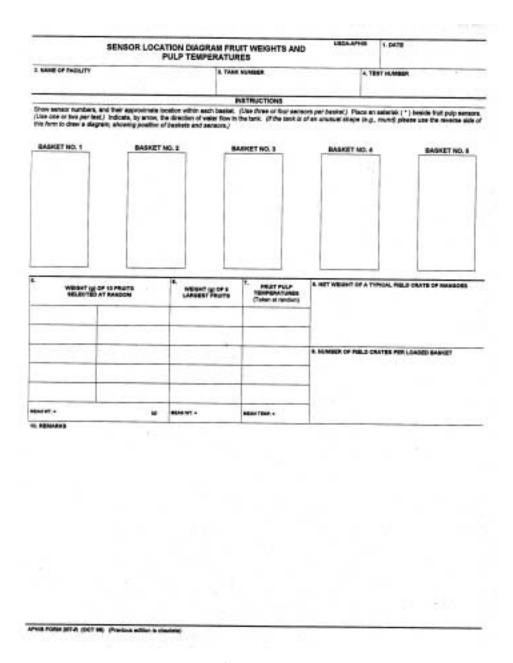


FIGURE A-1-11: APHIS Form 207-R (Sensor Location Diagram Fruit Weights and Pulp Temperatures)

APHIS Form 208 (Performance Test for Mango Hot Water Immersion Tank)

	PERFORMA	CE TEST	FOR MA	NGO HOT	WATER	MVERBIO	N TANK	Canada	1. DATE OF		
HAME OF PAC	DUTY			2000000		R. LIDIATION					-
HAME OF FIX	DILITY HUMANDER (Type or print;	7.7.	_							
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A. YHERMOUT	ATIC BET POINT	88. WX	TER IN THE T	AME		IC. PROT PUL	P (Average)		NO. AMBIER	T AIR	
O. BIDANTURE	OF INSPECTOR	-				11. NAME OF S	негеотом (т	Jan er print			
		1		200		1					
2. HOTES											
				**							
	SHARRY NO.:	3			TANK HO.			1887.0			
	ar apacific times (%	是可	nalization and		TANK HO.	poly sersion p	e late. Indoo			m(*)	
Headings taken HOPT MILE MINISTER MINISTER MINISTER MILE MINISTER M	a specific times (n			potract plan	TANK NO.				with expend		-
	ar apacific firms (n tour apacific Advisor apacific		Service Co.	potract plan	TANK NO.				with expend		•
	a specific times (n	-44	Service Co.	potract plan	TARK 90 10 Use 1 (r) 2 3-0				with expend		•
	ar apacific firms (n tour apacific Advisor apacific	TAME TAME	Service Co.	potract plan	TARK 90 10 Use 1 (r) 2 3-0				with expend		•
	ar apacific firms (n tour apacific Advisor apacific	TAME TAME TAME TAME	Service Co.	potract plan	7ARK 90.				with expend		
	ar apacific firms (n tour apacific Advisor apacific	TAME TAME	Service Co.	potract plan	7ARK 90.				with expend		•
	ar apacific firms (n tour apacific Advisor apacific	TAME TAME TAME TAME	Service Co.	potract plan	7ARK 90.				with expend		•
	ar apacific firms (n top.apacific Adulations)	TAME TAME TAME	Service Co.	potract plan	7ARK 90.				with expend		•

Calibration of Temperature Probes (Cold Treatment)

	CAL	IBRATION	OF TEM	PERATURE PROB	<u>es</u>	
Vessel:						
					-d•	
Date Of	Calibration:			Date hoad	_	
Hatch & Compartment	Temperature Probe No.	- Test	Calibra at 0.00			Probe Temperature of Fruit at Completion of Loading
		Test _#1	#2	oC/oF		
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Signa	ture:					

FIGURE A-1-12: Calibration of Temperature Probes (Cold Treatment)

Instructions to Captain (Cold Treatment)

alted States Department of Agricults	USDA Anona	d Plant Health Inspection Service
Instructions to the Master of the M/V		
	e attachment) and identified by the exclosed Status in accordance with the requirements of	
The treatment consists of two parts:		
	the selected temperature of cold treatment ow the selected cold treatment temperature f	or the stipulated number of days.
to provide a continuous record of the fi required at least <u>once every bear</u> during when leaving the Port of Departure or within the prescribed treatment schools.	must be in operation during the earlies process nail pulg and air temperatures. Printents of a ing the precooling and treatment. All equipm the treatment will fall. Both pulp and air sen- te in order to achieve a successful cold treatm DA cleanance official at the first part of desti-	ach sensor (air and pulp) are ant must be in working order sor readings "MUST" stensio sent. The recording shall not be
	e instruments for the intransit cold postpars or log shoet at least once in each 24 hour peri	
One set of the accompanying documentalizements and use.	ts should be turned over to the clearance offi	cist, and one is for your
The Treatment schedule to be used for	this shipment as required per CFR 319.56 is	Listed below.
To be filled in and initialed by	issuing official:	***************************************
To be filled in and initialed by FRUIT TEMPERATURE Temp. Fahrenheit	issuing official: FRUIT TEMPERATURE Temp. Celsius	NO. OF BAYS
FRUIT TEMPERATURE Temp. Fahrenheit Signature	FRUIT TEMPERATURE Temp. Celsius	
FRUIT TEMPERATURE Temp. Fahrenheit	FRUIT TEMPERATURE Temp. Celsius	NO. OF DAYS
FRUIT TEMPERATURE Temp. Fahrenheit Signature	FRUIT TEMPERATURE Temp. Celsius	NO. OF DAYS
FRUIT TEMPERATURE Temp. Fahrenheit Signature (Please sign and print.)	FRUIT TEMPERATURE Temp. Celsius	NO. OF DAYS

FIGURE A-1-13: Certificate of Loading and Calibration for Cold Treatment in Self Refrigerated Containers (Cold Treatment)

Location of Temperature Sensors in Containerized Cargo (Cold Treatment)

LOCATION OF TH	EMPERATURE SENSORS IN CONTAINERIZED C	<u>ARGO</u>
NAME OF VESSEL	· · · · · · · · · · · · · · · · · · ·	
CONTAINER NUMBER		
PROBE 1		
PROBE 2 _		
PROBE 3		
_		
_		
SIGNATURE:	DATE:	
TITLE:		

FIGURE A-1-14: Location of Temperature Sensors in Containerized Cargo (Cold Treatment)

Certificate of Loading and Calibration for Cold Treatment in Self Refrigerated Containers (Cold Treatment)

CERTIFICATE OF LOADING AND CALIBRATION FOR COLD TREATMENT IN SELF REFRIGERATED CONTAINERS
COUNTRY OF ORIGIN:
LOCATION OF LOADING:
NAME OF CARRIER:
CONTAINER NUMBER:
COMMODITY: NO OF CASES:
TYPE OF AIR DELIVERY:
TYPE OF LOADING PATTERN:
RECORDING INSTRUMENT TYPE:
SERIAL NUMBER:
PRINT INTERVAL:
SENSOR CALIBRATION (at 32° F, (0° C))
SENSOR TEST CORRECTION FACTOR
RECORDER START TIME:
START LOADING: END LOADING:
PULP TEMPERATURE AT LOADING:
CONTAINER SEAL NUMBER:
CERTIFYING OFFICIAL: SIGNATURE:

FIGURE A-1-15: Certificate of Loading and Calibration for Cold Treatment in Self Refrigerated Containers (Cold Treatment)

Application for USDA-APHIS Approval of Self-Refrigerated Containers (for use in conducting quarantine in-transit cold treatment under USDA regulations)

Application for USDA-APHIS App	proval of Self-Refrigerated Container
(for use in conducting quarantine in-tra	적용 사람이 없는 그렇게 되었다. 그 아이들이 하는 사람이 되었다면 보다 없는 것이 없어요?
regulations)	asit cold treatments under CSDA
-	
Instructions:	
(1) Review the regulatory requirements spelled of	
(2) This form is arranged in four parts. You mu	
applicable, write "N/A.")	items are left blank. (Note: If some stems are not
(3) Send the completed form to:	
Oxford Plant Protection Center	
USDA APHIS PPO	
901 Hillsboro Street	
Oxford, North Carolina 27565	
Fax: (919) 693-3870 Tel: (919) 693-38	870
e-mail: bonnie,floydiğunda,gov	
This form was completed by	
(1) Name	
(2) Title:	
(3) Signature:	
(4) Name of Company:	
(5) Type of Company (Check all that anoly):	
Container manufacturer Shipp Shipper Other (please specify)	ping line Owner
Shipper Other (please specify)	
(6) Address:	
(7) Fax: (8) Telephone	(III) a. mail
(v) see	(*) *-11411
Part I. The Container Itself (or Series	of Containers)
A. Container Identification	40.00
Owner's Operating Numbers: Manufacturer's Serial Numbers:	through
ABS D. F. Numbers	through
ABS D.T. Numbers: Date of Manufacture:	through
5. Container Line:	
B. Container Size	
	Height: Width
External dimensions: (in feet) Length.	cubic meters
External dimensions: (in teet) Length Internal cubic capacity: cubic feet	
External dimensions: (in feet) Length Internal cubic capacity: cubic feet C. Insulation	
C. Insulation	
C. Insulation 1. Type of insulation used: 2. Thickness (in inches):	<u></u>
External dimensions: (in teet) Length Internal cubic capacity; cubic feet C. Insulation Type of insulation used: Thickness (in inches): D. Heat gain:	
C. Insulation 1. Type of insulation used: 2. Thickness (in inches):	
C. Insulation 1. Type of insulation used: 2. Thickness (in inches):	Page 1 of 2

FIGURE A-1-16: Application for USDA-APHIS Approval of Self-Refrigerated Containers (for use in conducting quarantine in-transit cold treatment under USDA regulations)

A. Malor and Model:	
B. Defrost Cycle: Is it fully adjustable (e	u., 3, 6, 9, 12, 24 hourst?
C. Cooling Capacity	
I. Full Cool:BTU	Keal
2. Partial cool: BTU	Kesi
D. Age of Equipment (if not new);	
E. Air Flow	
Top delivery Bottom Delivery Delivery method:	ery Other (specify)
3 Air flow rate (cubic feet/minute)	
@ 0 inches of water:	@ 0.75 inches of water
Part III. The Controller and Res	corder
A. Make and Model	
	Type
2. Recorder:	Туре
B. Adjustment Capability:	
C. Age of Equipment (if not new):	
D. Is the temperature record printed on c	thart paper during the voyage, or is it stored and later
downloaded by computer after the voy	yage is completed?
Inside the container Out If the controller or printer are access locked or seeled while in use?	sible from the outside (without opening doors), will this unit
Part IV. The Temperature Sense A. Number of Sensors installed: (Note:	sible from the outside (without opening doors), will this unit
If the controller or printer are access locked or sealed while in use? Part IV. The Temperature Sense A. Number of Sensors installed: (Note: B. Description of sensors	ors The minimum number is three.)
If the controller or printer are access locked or sealed while in use? Part IV. The Temperature Senso A. Number of Sensors installed: (Note: B. Description of sensors I. Length (in inches):	ors The minimum number is three.)
If the controller or printer are access locked or sealed while in use? Part IV. The Temperature Sense A. Number of Sensors installed: (Note: B. Description of sensors	ors The minimum number is three.)
If the controller or printer are access locked or sealed while in use? Part IV. The Temperature Sense A. Number of Sensors installed: (Note: B. Description of sensors 1. Length (in inches): 2. Diameter (in inches): 3. Type: C. If required, can the controller/recorder	ors The minimum number is three.) r accommodate several additional sensors?
If the controller or printer are access locked or sealed while in use? Part IV. The Temperature Sense A. Number of Sensors installed: (Note: B. Description of sensors 1. Length (in inches): 2. Diameter (in inches): 3. Type: C. If required, can the controller/recorder If so — 1. What type?	ors The minimum number is three.) r accommodate several additional sensors?
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If the controller or printer are access locked or sealed while in use? Part IV. The Temperature Sense A. Number of Sensors installed: (Note: B. Description of sensors 1. Length (in inches): 2. Diameter (in inches): 3. Type: C. If required, can the controller/recorder If so — 1. What type? D. Response time: E. Scale: The temperature recording wiff. Accuracy (Note: Sensors must print a within +/- 0.3 degrees C, or +/- 0.5 d	ors The minimum number is three.) 1 accommodate several additional sensors? 2. How many? 1 be in : Fahrenheit Certigrade at least in tenths of a degree, and must be accurate to begrees F.)
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If the controller or printer are access locked or sealed while in use? Part IV. The Temperature Sense A. Number of Sensors installed: (Note: B. Description of sensors 1. Length (in inches): 2. Diameter (in inches): 3. Type: C. If required, can the controller/recorder If so — 1. What type? D. Response time: E. Scale: The temperature recording wif F. Accuracy (Note: Sensors meat print a within +/-0.3 degrees C, or +/-0.5 d G. Length of cable wires leading from or cronogh to reach fruits in all parts of	ors The minimum number is three.) r accommodate several additional sensors? 2. How many? Il be in : Fahrenheit Centignate at least in tenths of a diegree, and must be accurate to legrees F.) outroller to sensors (Note: The wires must be long
If the controller or printer are access locked or sealed while in use? Part IV. The Temperature Sense A. Number of Sensors installed: (Note: B. Description of sensors 1. Length (in inches): 2. Diameter (in inches): 3. Type: C. If required, can the controller/recorder If so — 1. What type? D. Response time: E. Scale: The temperature recording wif F. Accuracy (Note: Sensors meat print a within +/-0.3 degrees C, or +/-0.5 d G. Length of cable wires leading from or cronogh to reach fruits in all parts of	ors The minimum number is three.) r tocommodate several additional sensors? 2. How many? Il be in : Fahrenheit Certigrade at least in tenths of a degree, and must be accurate to legrees F.) ontroller to sensors (Note: The wives must be long the container.)
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If the controller or printer are access locked or sealed while in use? Part IV. The Temperature Sense A. Number of Sensors installed: (Note: B. Description of sensors 1. Length (in inches): 2. Diameter (in inches): 3. Type: C. If required, can the controller/recorder If so — 1. What type? D. Response time: E. Scale: The temperature recording will F. Accuracy (Note: Sensors meat print a within +/- 0.3 degrees C, or +/- 0.5 d G. Length of cable wires leading from or crossing to reach fruits in all parts of	ors The minimum number is three.) r tocommodate several additional sensors? 2. How many? Il be in : Fahrenheit Certigrade at least in tenths of a degree, and must be accurate to legrees F.) ontroller to sensors (Note: The wives must be long the container.)

FIGURE A-1-17: Application for USDA-APHIS Approval of Self-Refrigerated Containers (for use in conducting quarantine in-transit cold treatment under USDA regulations)

General Requirements for Approval of Integral Containers Used for Cold Treatment

Attachment, General Requirements for Approval of Integral Containers Used for Cold Treatment

Containers must have adequate refrigeration, insulation, and thermostatic control to precool and uniformly hold fruit temperatures at 2.2° C (36° F) or below for the estire treatment period.

Standards for Temperature Recording Instruments

Recording instruments to be used for cold treatments conducted in self-refrigerated containers must be approved by the Oxford Plant Protection Center. When applying for approval, the specifications of the recorder and sensors must be submitted.

The readings of the instrument have to be accurate to within plus or minus 0.3° C, or plus or minus 0.5° F of the true temperature range of +27° F to +37° F, with a resolution of 0.1° F or C.

Sensors also will have an outer sheath of 0.25 inch (6.4 mm) diameter or less. The sensing element must be located within the first inch (2.5 cm) of the sensor.

Sensors must be capable of collecting temperature data at least once every hour, and recording or storing data for up to 30 days.

System should have a visual display so that temperatures can be reviewed manually during the treatment, and for ease of calibration.

Printout must identify each sensor and indicate time and temperature. An identification number has to be printed so that the recorder and printout can be matched.

If the recorder is to be carried inside the container, the data should be accessible without opening the container.

At least three sensors are necessary for each container.

FIGURE A-1-18: General Requirements for Approval of Integral Containers Used for Cold Treatment.